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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,042	09/26/2005	Toshihide Murakami	4252-0111PUS1 3626	
2292 BIRCH STEW	7590 . 05/09/2007 ART KOLASCH & BIRG	EXAMINER		
PO BOX 747			BRIGGS, NATHANAEL R	
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
Office Action Summary	10/518,042	MURAKAMI ET AL.			
Office Action Summary	Examiner	Art Unit			
The MAN INC DATE of this communication	Nathanael R. Briggs	2871			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 28 Fe	ebruary 2007.				
2a) This action is FINAL. 2b) ⊠ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 9-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdray  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 9-24 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and all accomposed and are all accomposed and are all all all all all all all all all al	epted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of: <ol> <li>Certified copies of the priority documents have been received.</li> <li>Certified copies of the priority documents have been received in Application No.</li> <li>Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

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#### **DETAILED ACTION**

## Response to Arguments

1. Applicant's arguments, see page 9, filed 28 February 2007, with respect to the rejection(s) of claim(s) 1-8 under 35 USC § 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of a different combination of the previously cited prior art.

### Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 9-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Arakawa (US 2002/0005925) in view of Kameyama et al. (US 6,795,139).
- 4. Regarding claim 9, Arakawa discloses an optical laminate (see figures 4, 5, and 7, for instance), comprising a quarter-wave plate (50), wherein (i) the quarter-wave plate (50) includes at least one layer of a material having a positive intrinsic birefringence value (layer A, 52) and at least one layer of a material having a negative intrinsic birefringence value (layer B, 54), the layer A (52) and the layer B (54) having the same molecular chain orientation ([0009]), the quarter-wave plate (50) has a variation in thickness of 5% or less ([0143], target thickness 100 μm, actual thickness 102 μm, variation of 2%), the quarter-wave plate (50) is obtained by stretching a laminate

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obtained by co-extruding the material having a positive intrinsic birefringence value (52) and the material having a negative intrinsic birefringence value (54,[0081], [0148]-[0152]), and (v) the material having a positive intrinsic birefringence value (52) is an alicyclic structure-containing polymer resin having a content of a resin component with a molecular weight of 2000 or less of 5 wt% or less ([0043], norbornene based polymer, as per Applicant's specification, page 7, line 12). However, Arakawa does not expressly disclose wherein the optical laminate further comprises a cholesteric liquid crystal layer and a quarter-wave plate laminated on the cholesteric liquid crystal layer.

- 5. Regarding claim 9, Kameyama discloses an optical laminate (see figures 1 and 2, for instance), wherein the optical laminate further comprises a cholesteric liquid crystal layer (12, 13) and a quarter-wave plate (2) laminated on the cholesteric liquid crystal layer (12, 13).
- It would have been obvious to one of ordinary skill in the art at the time the 6. invention was made to use the guarter-wave / cholesteric LC layer combination of Kameyama in the optical laminate of Arakawa. The motivation for doing so would have been to minimize image blurring, as taught by Kameyama (column 1, lines 44-51). Claim 9 is therefore unpatentable.
- Regarding claim 10, Arakawa in view of Kameyama discloses the optical 7. laminate according to claim 9 (see Arakawa figures 4, 5, and 7; Kameyama figures 1 and 2, for instance), and Arakawa further discloses wherein the material having a negative intrinsic birefringence value is a vinyl aromatic polymer ([0052]).

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8. Regarding claim 11, Arakawa in view of Kameyama discloses the optical laminate according to claim 9 (see Arakawa figures 4, 5, and 7; Kameyama figures 1 and 2, for instance), and Arakawa further discloses wherein the quarter-wave plate (50) has a configuration consisting of the layer A, the layer B, and the layer A, or consisting of the layer B, the layer A, and the layer B. Claim 11 is therefore unpatentable.

- 9. Regarding claim 12, Arakawa in view of Kameyama discloses the optical laminate according to claim 10 (see Arakawa figures 4, 5, and 7; Kameyama figures 1 and 2, for instance), and Arakawa further discloses wherein the quarter-wave plate (50) has a configuration consisting of the layer A, the layer B, and the layer A, or consisting of the layer B, the layer A, and the layer B. Claim 12 is therefore unpatentable.
- 10. Regarding claim 13, Arakawa in view of Kameyama discloses the optical laminate according to claim 9 (see Arakawa figures 4, 5, and 7; Kameyama figures 1 and 2, for instance), and Arakawa further discloses a polarized light source comprising the optical laminate according to claim 9 ([0137]). Claim 13 is therefore unpatentable.
- 11. Regarding claim 14, Arakawa in view of Kameyama discloses the optical laminate according to claim 10 (see Arakawa figures 4, 5, and 7; Kameyama figures 1 and 2, for instance), and Arakawa further discloses a polarized light source comprising the optical laminate according to claim 10 ([0137]). Claim 14 is therefore unpatentable.
- 12. Regarding claim 15, Arakawa in view of Kameyama discloses the optical laminate according to claim 11 (see Arakawa figures 4, 5, and 7; Kameyama figures 1 and 2, for instance), and Arakawa further discloses a polarized light source comprising the optical laminate according to claim 11 ([0137]). Claim 15 is therefore unpatentable.

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13. Regarding claim 16, Arakawa in view of Kameyama discloses the optical laminate according to claim 12 (see Arakawa figures 4, 5, and 7; Kameyama figures 1 and 2, for instance), and Arakawa further discloses a polarized light source comprising the optical laminate according to claim 12 ([0137]). Claim 16 is therefore unpatentable.

- 14. Regarding claim 17, Arakawa in view of Kameyama discloses the optical laminate according to claim 13 (see Arakawa figures 4, 5, and 7; Kameyama figures 1 and 2, for instance), and Arakawa further discloses the polarized light source comprising a light reflecting layer, a light source, and the optical laminate (50), wherein the light reflecting layer, the light source, and the optical laminate (50) are disposed so that light emitted from the light source is incident on the optical laminate from a side of the cholesteric liquid crystal layer, and reflected circularly polarized light reflected by the optical laminate is reflected by the light reflecting layer and is incident on the optical laminate ([0137]). Claim 17 is therefore unpatentable.
- 15. Regarding claim 18, Arakawa in view of Kameyama discloses the optical laminate according to claim 14 (see Arakawa figures 4, 5, and 7; Kameyama figures 1 and 2, for instance), and Arakawa further discloses the polarized light source comprising a light reflecting layer, a light source, and the optical laminate (50), wherein the light reflecting layer, the light source, and the optical laminate (50) are disposed so that light emitted from the light source is incident on the optical laminate (50) from a side of the cholesteric liquid crystal layer, and reflected circularly polarized light reflected by the optical laminate is reflected by the light reflecting layer and is incident on the optical laminate ([0137]). Claim 18 is therefore unpatentable.

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Regarding claim 19, Arakawa in view of Kameyama discloses the optical 16. laminate according to claim 15 (see Arakawa figures 4, 5, and 7; Kameyama figures 1 and 2, for instance), and Arakawa further discloses the polarized light source comprising a light reflecting layer, a light source, and the optical laminate (50), wherein the light reflecting layer, the light source, and the optical laminate (50) are disposed so that light emitted from the light source is incident on the optical laminate (50) from a side of the cholesteric liquid crystal layer, and reflected circularly polarized light reflected by the optical laminate (50) is reflected by the light reflecting layer and is incident on the optical laminate ([0137]). Claim 19 is therefore unpatentable.

- Regarding claim 20, Arakawa in view of Kameyama discloses the optical 17. laminate according to claim 16 (see Arakawa figures 4, 5, and 7; Kameyama figures 1 and 2, for instance), and Arakawa further discloses the polarized light source comprising a light reflecting layer, a light source, and the optical laminate (50), wherein the light reflecting layer, the light source, and the optical laminate (50) are disposed so that light emitted from the light source is incident on the optical laminate (50) from a side of the cholesteric liquid crystal layer, and reflected circularly polarized light reflected by the optical laminate (50) is reflected by the light reflecting layer and is incident on the optical laminate ([0137]). Claim 20 is therefore unpatentable.
- Regarding claim 21, Arakawa in view of Kameyama discloses a liquid crystal 18. display device (see Arakawa figures 4, 5, and 7; Kameyama figures 1 and 2, for instance), comprising the polarized light source device according to claim 13 ([0137]). Claim 21 is therefore unpatentable.

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19. Regarding claim 22, Arakawa in view of Kameyama discloses a liquid crystal display device (see Arakawa figures 4, 5, and 7; Kameyama figures 1 and 2, for instance), comprising the polarized light source device according to claim 14 ([0137]). Claim 21 is therefore unpatentable.

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- 20. Regarding claim 23, Arakawa in view of Kameyama discloses a liquid crystal display device (see Arakawa figures 4, 5, and 7; Kameyama figures 1 and 2, for instance), comprising the polarized light source device according to claim 15 ([0137]). Claim 21 is therefore unpatentable.
  - 21. Regarding claim 24, Arakawa in view of Kameyama discloses a liquid crystal display device (see Arakawa figures 4, 5, and 7; Kameyama figures 1 and 2, for instance), comprising the polarized light source device according to claim 16 ([0137]). Claim 21 is therefore unpatentable.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathanael R. Briggs whose telephone number is (571) 272-8992. The examiner can normally be reached on 9 AM - 5:30 PM Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Nathanael Briggs 4/30/2007

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